

Wellington Water Projects

**Water & Wastewater
Master Plan**

Village of Wellington

December 11, 2015

2016 Florida Senate Water Project Funding



The Florida Senate

Local Funding Initiative Request - Fiscal Year 2016-2017

1. Senate Sponsor:
2. Date of Request:
3. Project/Program Description:

4. Amount of Request:
- | Amount Requested for Operations | Amount Requested for Fixed Capital Outlay | Total Amount of Requested State Funds |
|--|---|--|
| <input type="text" value="Click here to enter text."/> | <input type="text" value="\$500,000"/> | <input type="text" value="\$500,000"/> |

5. Total Project Cost (if greater than Total Requested State Funds):

6. Type, Amount and Percent of Match:
- | Type | Amount | Percent |
|-----------------------------------|--|----------------------------------|
| <input type="text" value="Cash"/> | <input type="text" value="\$100,000"/> | <input type="text" value="17%"/> |

7. Was the project previously funded by the State?

| Fiscal Year(s) | Amount |
|--|--|
| <input type="text" value="Click here to enter text."/> | <input type="text" value="Click here to enter text."/> |
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8. Is future-year funding likely to be requested?

9. Program Performance (if needed, include additional documentation):

- a. How will requested funds be spent? Include supporting documentation.

As Central Palm Beach County continues to expand around the Village of Wellington and as the Village approaches build-out, assessing the long term needs of the Acme Utility Service Area is a logical utility planning activity. Water; whether raw, potable, waste, reuse or storm, is an essential commodity to this region and the bordering ecosystem. Determining the long term water needs is essential in managing this commodity properly. The Village of Wellington proposes a Utility Master Plan designed to evaluate and determine the long term service requirements for water, wastewater and reuse water within the Acme Service Area, as well as the use of storm waters for irrigation and ground water re-charge of raw water wells. Determining these needs is an essential component in determining how the C-51 Reservoir Project can service the Acme Service Area.

- b. Identify expected program results and the expected benefit associated from the requested funds.

Wellington's Utility Master Plan proposes to outline provisions for ground water recharging Wellington's raw water well fields, while providing potable water service to all 1,600 agricultural estates properties over the next 10 years. Additionally, the plan would include limited wastewater collection facilities within the equestrian area, while enhancing the area's storm water protection. Previous drought conditions have highlighted the need for irrigation waters throughout the community. Reuse water is limited by wastewater plant production and is currently servicing Village parks and rights-of-way. Reuse water can also be made available to specific areas within the Equestrian Preserve Area and this plan would highlight these areas. The plan would also identify the volumetric water needs from the C-51 Reservoir Project, in which Wellington would participate as a member of a regional cooperative. The C-51 Reservoir is located immediately north of Wellington and is a key component of the governor's restoration strategies to be operated by the South Florida Water Management District. Currently proposed as an alternative water supply project, phase I consists of 14,000 acre-feet of storage resulting in available water use allocations



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totaling 35 mgd in phase I, to the members of a regional cooperative. The Village is seeking \$500,000.00 in grant monies to fund the master plan. This plan would include an assessment of needs for raw, potable, waste, reuse and storm waters. The plan would identify the means by which potable water could be extended throughout the Acme Service Area, and highlight areas within the equestrian preserve where waste water and reuse waters could be provided over the next 10 years. Additionally, the plan would assess storm waters and the availability for use as irrigation water.

c. Who will benefit from receipt of State funds?

The Acme Service Area is bounded by State Road 80 (Southern Blvd.) on the north, State Road 7/441 on the east, the L-40 canal/levee on the west and extends southward to Hypoluxo Road. To the west of the L-40 canal/levee lies the Loxahatchee National Wildlife Refuge, a key component in providing freshwaters to the Everglades. Surrounding Wellington and mostly north of State Road 80/Southern Blvd., within the unincorporated area of Palm Beach County, are 8 residential and mixed use projects. The combined growth of these projects as currently planned would include 20,000 new homes, 1.5 million square feet of retail/commercial and 4.8 million square feet of industrial space. Most of Wellington's 22,000 homes have been serviced by potable water, wastewater and storm water protection since its inception in 1972. The 1,600 agricultural estates properties which comprise the equestrian community, represents 1/3 of Wellington's overall land area. This predominantly equestrian area has little to no wastewater service, partial potable water service, and no reuse water availability. Storm water protection and irrigation needs are provided by the Village operated drainage canals.

d. What specific measures will be used to document performance data for the project, if it receives funds?

Part of the plan that is developed will establish goals for the project and identify the most accurate metrics to provide performance data. The collection of data to assess performance will be coordinated by Village Staff using its consulting engineers as support. Multiple testing periods will provide sufficient technical data on the success of the project including the overall reduction of water use and improvement of delivery systems. In addition to providing results associated with the alternative water supply project. The Village will also report the economic benefit of the project including direct and indirect job creation.

10. Requestor Contact information:

- a. Name and Title:
- b. Organization:
- c. E-mail Address:
- d. Phone Number:

11. Recipient Contact Information:

- a. Organization:
- b. Municipality and County:
- c. Organization type (check all that apply):
- ☐ For-profit Corporation
- ☒ Not-for-profit Corporation
- ☒ 501c3 entity
- ☐ Other (please specify)
- d. Contact Name and Title:
- e. E-mail Address:



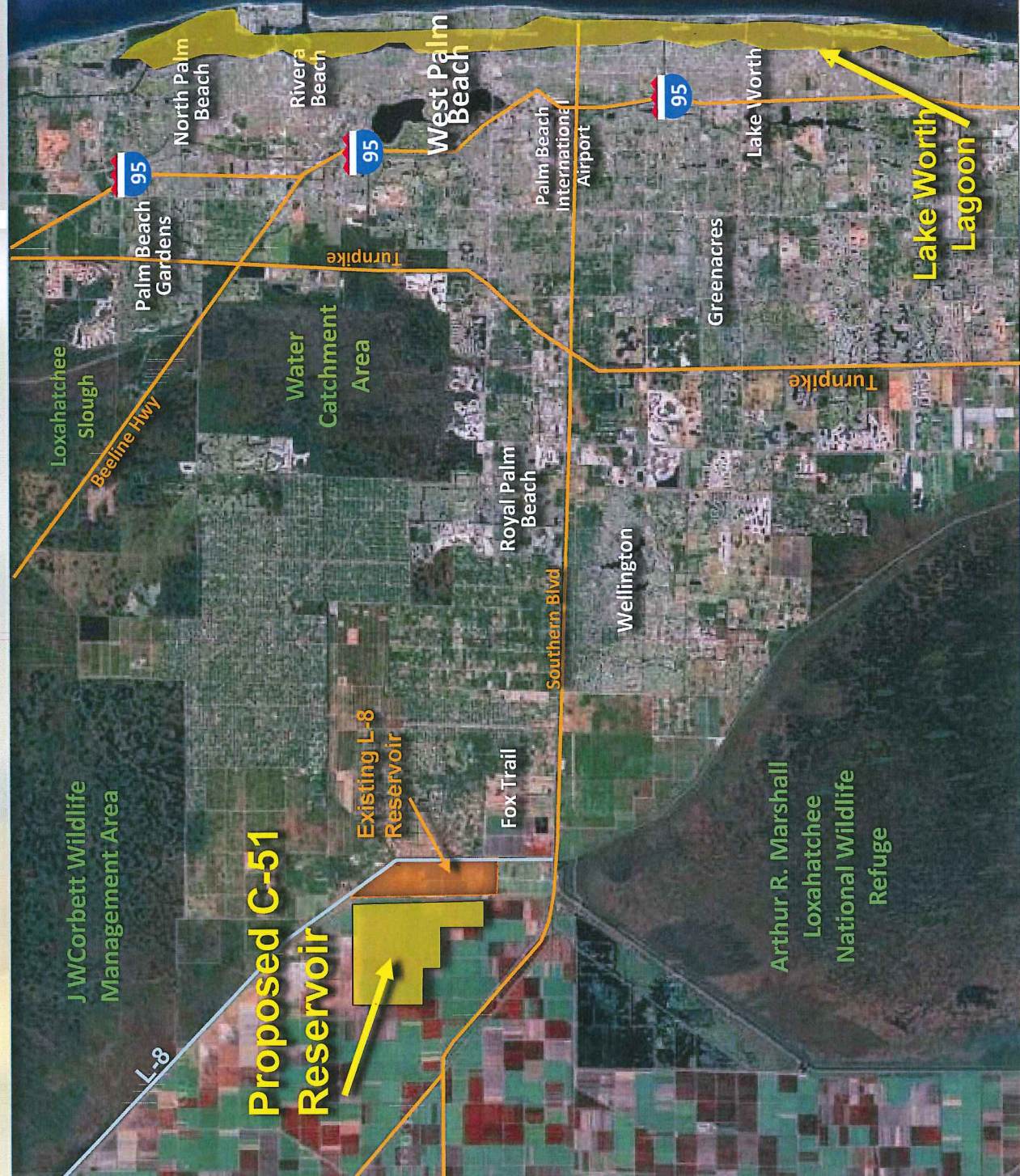
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f. Phone Number:

(561) 753-2532

C-51 Reservoir



- **Proposed**
- **Located in western Palm Beach County**
- **75,000 ac/ft of storage**
- **Capture and store excess surface water from C-51 basin**
- **Increased water storage and delivery to help benefit South Florida's regional water supplies**
- **Reduce harmful discharges to the Lake Worth Lagoon**

C-51 Reservoir Summary of Benefits

- Regionally significant project with multiple public purposes
 - Beneficial use of water lost to tide
 - Decrease in harmful fresh water releases to Lake Worth Lagoon
 - Long-term & cost-effective Alternative Water Supply
 - Potential flood relief for western Palm Beach County
 - Sea level rise & saltwater intrusion benefits
- Location and geology
 - Cross roads
 - Extensive canal infrastructure & conveyance capabilities
- Stakeholder interest and support



C-51 Reservoir Utility Needs

- Handful of utilities that have immediate needs
- Some utilities have stranded infrastructure capacity
- Current limitations on increased withdrawals that affect the Everglades & regional system could be offset by new source of water
- Utilities seeking sustainable and reasonably priced alternatives for future water supply

